



kubernetes

Kubernetes: Serverless on Kubernetes

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- **Public Cloud Providers** provide **server less** capabilities in which user can deploy functions.
- **Serverless** capabilities doesn't require to deploy containers or instances for containers.
- AWS Lambda
- Google Cloud Functions
- Azure Functions
- **Serverless** function doesn't need Infrastructure to Run on.
- Functions can be schedule and only invoke when required.

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- **Serverless** movement and the Container movement share the same vision of simplifying deploying and managing your application.
- **Serverless** functions are already running on containers **behind the scenes**.
- There is an orchestrator behind the scenes that's usually running your **serverless** functions.
- **Serverless** allow you to build applications at a high abstraction level so you can focus more on developing your applications and less on the infrastructure underneath.

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- **Serverless** on public cloud reduce the Complexity, Operational Cost, Infrastructure Setup effort.
- User don't need to manage the **OS distribution**.
- User don't need to build the **Containers**.
- User have to pay less, only for the time the function is running.
- Developers just need to push the code without knowing the Infra.
- But developer needs to manage the **Operational Issues** with the code.

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- Most Popular **Serverless Frameworks** and Projects:
- Fission
- Kubeless
- OpenWhisk
- OpenFaas
- User needs to install these Projects on Kubernetes Cluster to use the **Serverless Functions**.
- **Administrator** still needs to manage the Kubernetes **Infrastructure**.

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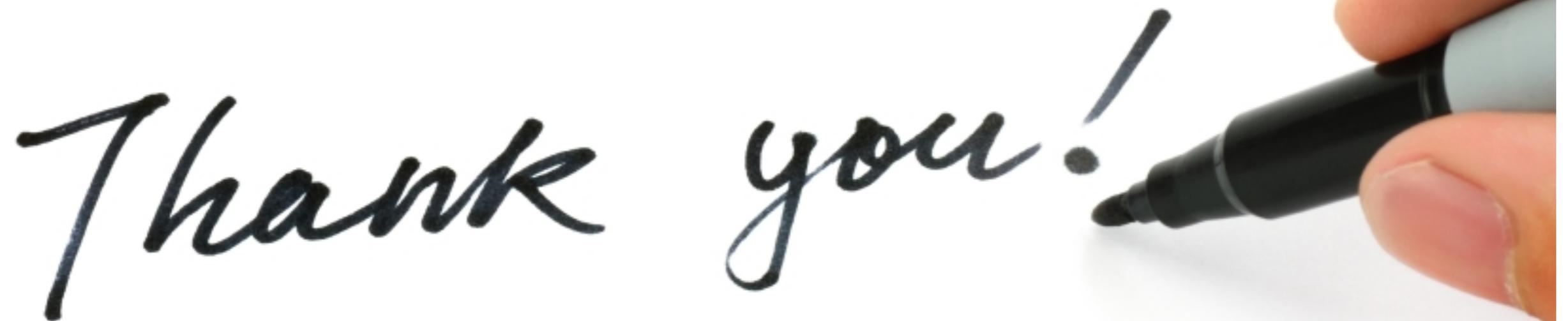
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Why Serverless on Kubernetes

- **Accelerate time to value with Kubernetes:** Allows you to quickly develop Kubernetes-based apps with no need for Kubernetes expertise.
- **Focus on Code, Not Infra:** Allow developers to move fast while improving the quality of your code from the start.
- **Simple, Inexpensive, Low Maintenance:** You can configure specific CPU and memory resource usage limits, set up rules for autoscaling, and set min/max parameters for your serverless functions.

Will see you in Next Lecture...

Thank you!

A close-up photograph of a hand holding a black marker, writing the words 'Thank you!' in a cursive script on a white surface. The hand is positioned on the right side of the frame, with the marker tip touching the paper. The background is plain white.

See you in next lecture ...